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Meeting with Players

Thanks for the purchase of our portable digital player, Lunnatic 5000 Wireless Energy Sistem.
Lunnatic 5000 with the same size as the one of common portable audio's remote control is the Digital Multi-Player providing the functions of MP3, WMA, FM Radio, Voice Recorder and Data Storage Device.
The menu of GUI Method enabling the use of various functions is provided, and it is designed to enable the user to upgrade the programs installed in the Player without being serviced at the A/S Center.
If you want to upgrade to the most recent software,
please visit the Energy Sistem **(http://www.energysistem.com/)** homepage.
Now, you may enjoy the digital music using the Digital Multi-Player and convenience of Digital Storage Device as well.

Cautions upon Using

Do not expose the product to high and low temperature and humidity.

Do not impact to the body

Be careful not to get any foreign substances flowed into the product.

Do not expose to the direct sunlight, or do not use near the heating apparatus.

Avoid using at the dusty or sooty area

Do not assemble, repair and modify.

Take out the battery when not using for a long.

Be careful not to get it contacted by chemical medications

Characteristics of Product

Multi-Codec Player
- MP3, WMA, and ASF Formats are serviced as the Multi-Codec Player.

FM Transmitter (WIRELESS MP3 PLAYER) *OPTION
- Allows you to listen to the music or song in the wireless environment using the radio frequency.

Firmware Upgrade
- Product enabling the Firmware Upgrade allows you to enjoy the music of the best quality all the time by adding, changing and improving the functions of Player.

Multi-languages serviced Graphic LCD is installed
- Graphic LCD providing the service of multi-languages is adopted.

FM Radio Function
- Allows you to listen to the FM Radio through the functions of automatic station selection and frequency memory, and installation of system to trace the electric wave upon moving enables the strong frequency for FM Radio listening.

EQ
- Normal, Rock, Jazz, Classic, and PoP

Provided GUI (Graphic User Interface) MENU

Easy Navigation
- You may store or search the music or song in the structure of tree, so convenient searching is promised.

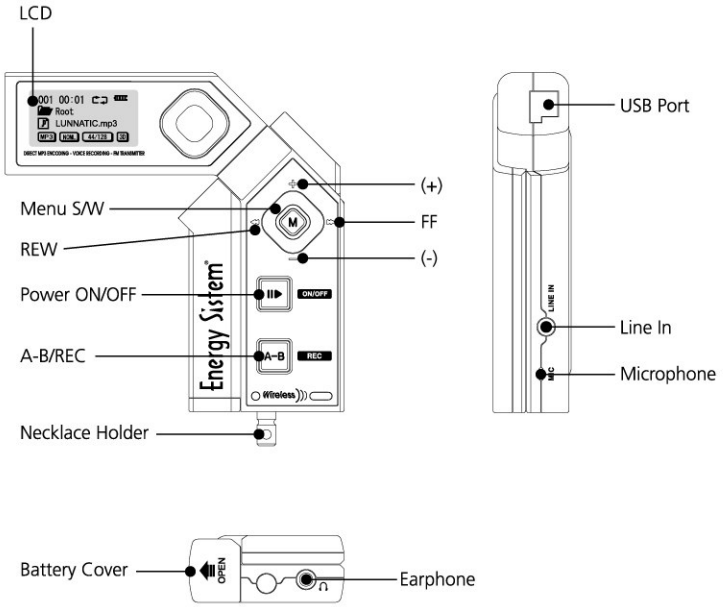
Provided MP3 Direct Encoding

FM Radio and Voice Record
- For the voice recording, AGC Function is preinstalled, so recording level is automatically adjusted.

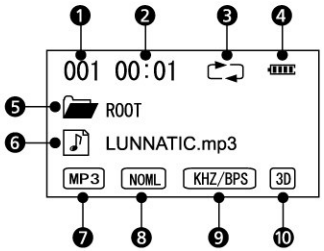
Carrying method of necklace type is adopted, so convenient carrying is promised.

The words of song are provided.
- You can see the lyric through LCD screen with the mp3 files attached the lyric or made by lyric program.

Names of Each Component and Key Functions



LCD Screen



1. Number of Music being Played
2. Playing Time
3. Repeat Mode
4. Battery Strength
5. Currently Used Folder
6. Names of Signer and Music or Song
7. Type of File
8. Equalizer Mode
9. Bit RATE
10. 3D Mode

Power On	Click and hold the (PLAY/PAUSE) Key for 1 second
Play	Click the (PLAY/PAUSE) Key.
Stop	Click the (PLAY/PAUSE) Key.
Play the Next Music	Push the lever to the direction of ▶▶.
Play the Previous Music	Push the lever to the direction of ◀◀
Fast Forward	Push and hold the lever to the direction of ▶▶.
Fast Rewind	Push and hold the lever to the direction of ◀◀
To Off the Power	Click and hold the (PLAY/PAUSE) Key for 1 second.
Control Mode	Click and hold the (A-B/REC) Button.
Menu Mode	Click and hold the (MENU S/W).
Selecting the Menu	Click the (MENU S/W)
Searching the Music	You may search the music using either (+) Key or (-) Key after clicking the (MENU S/W). Push (A-B/REC) button shortly then you see play list Push(A-B/REC) button longer then you can delete the song.

Summary of Road Map

1 Menu Mode

MP3 Player | FM Radio | RF XMIT

Line-in Encode | Voice Record

2 Control Mode

General
- Download
- Load Default
- Language Set
- Fast Format
- Low Format
- Information

Display
- LCD Contrast
- Backlight
- LCD Off-time
- Time Mode
- Tag Info
- Orign Mode

Record
- Voice Record
- Radio Record
- Music Record

Sound
- Equalizer
- Fade-in
- 3D Control
- Treble Control
- Bass Control

Play
- Repeat
- Play Speed
- Intro Search
- Resume
- Program
- Play List

-Etc.
- Stop Power Off
- Sleep Power Off
- FM Scan Level
- Battery Type
- Lyric Control

1 PC Requirements

- Windows 98/Me/2000/XP
- Hard disk space of above 20Mb
- CD-ROM Drive
- USB Port serviced PC

2 Setting the PC Environment

- Window 98 User

Make sure to install the WIN98 Driver. Use by connecting the player after installing the driver.
To upgrade the player, you need to install the NonUSB Driver.

- Window ME/2000/XP User

Install the NonUSB Driver only when you want to upgrade the player.

3 Installing the Additive Function Programs

1. You may install and uninstall the WIN98/SE Driver and NON USB Driver(for upgrading) using the additive programs (for upgrading).

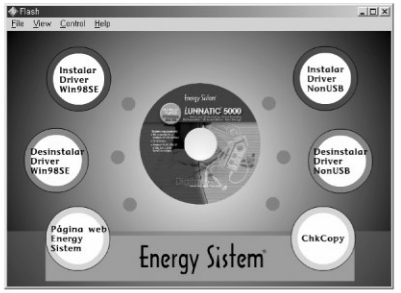
2. How to Install

- Execute the installation driver prior to connecting the product to the USB Port and then the <None>

1) Insert the CD provided with the product in the CD-ROM.

2) Installing guide program is automatically loading.
(When the program is not automatically executed according to system environment, execute the program using the Lunnatic5000.exe stored in the CD)

How to Set the PC Environment by Operating System



3) Click the WIN98/SE Install.
DOS Screen appears and installation procedure is completed.

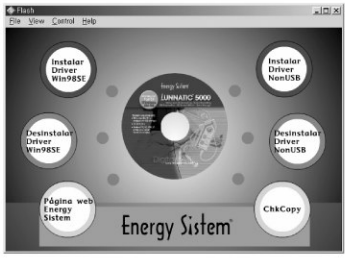
4) When the installation is completed, connect the player to the USB Port.

5) The Player is recognized and automatically installed, and it is recognized as "Mobile disk" in the file monitoring window.

3. How to Delete

1) Insert the CD provided with the product in the CD-ROM.

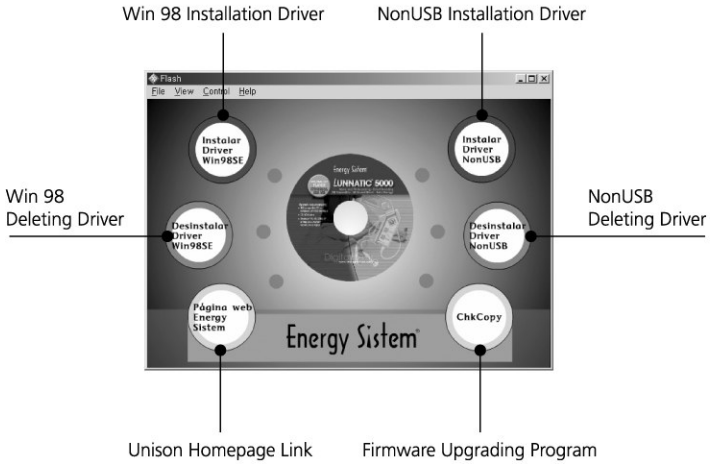
2) Installing guide program is automatically loading. (When the program is not automatically executed according to system environment, execute the program using the Lunnatic5000.exe stored in the CD)



3) Execute the WIN98/SE UnInstall.

4) DOS Screen appears and driver deleting procedure is completed.
   * Execute the driver installation program again to get the Player recognized after the deletion.

*** Descriptions of Installing Guide Programs**

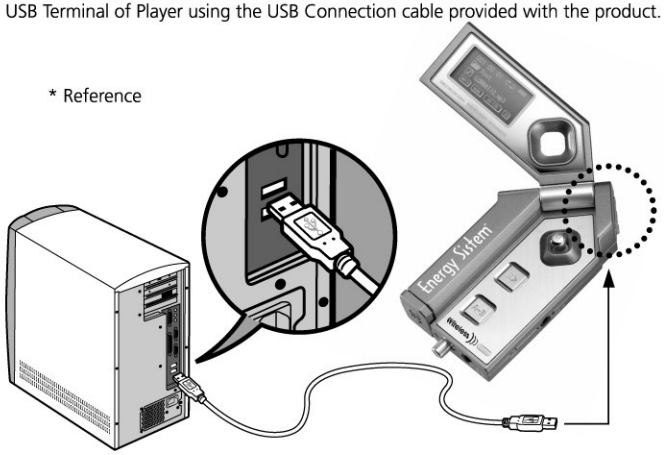


1 Connecting to the PC

1. How to Connect

Connect the one end of cable to the USB Port of computer and another end to the USB Terminal of Player using the USB Connection cable provided with the product.

* Reference

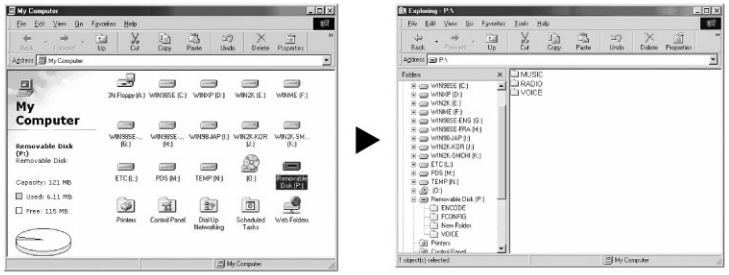


2. Downloading/Uploading the File

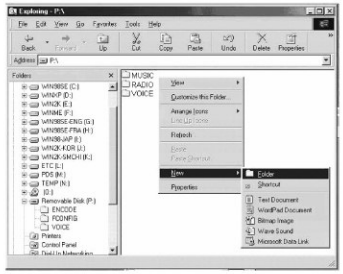
If connecting this product to the PC, new mobile disk is recognized in window explorer of PC.

1) Making new folder in the Player

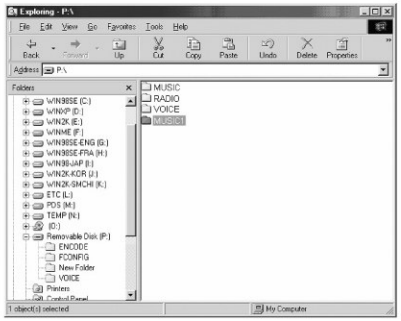
2) Select the mobile disk by opening the Window explorer.



3) Select new folder by clicking the right part of mouse.

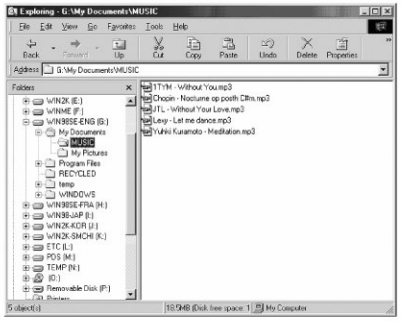


4) A new folder is created in the Player, and enter the name of folder as per your preference.

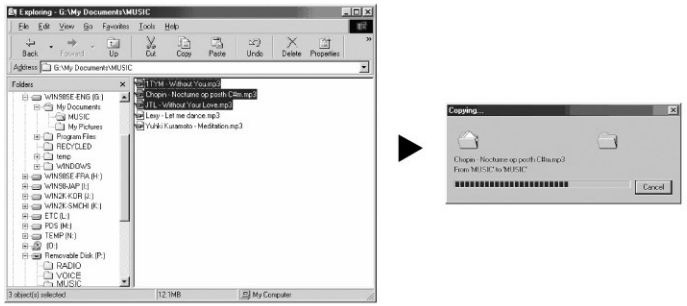


3. Copy of file or folder of Player

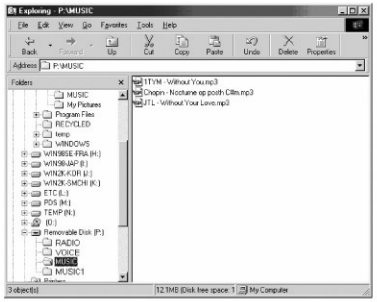
1) Move to the music and data to copy on PC in Window explorer.



2) Move the folder or file to make a copy to the position where you want to make a copy by dragging the corresponding folder or file.



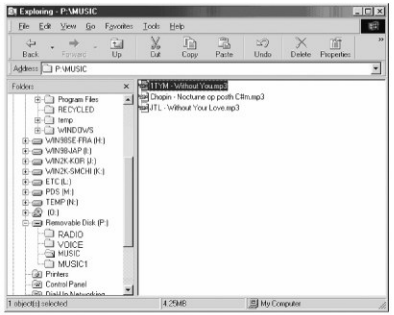
3) New file is created at the position where you want to make a copy.



*** Note:** You may make copy of numbers of files or folders concurrently.

3) Deletion of file or folder of Player

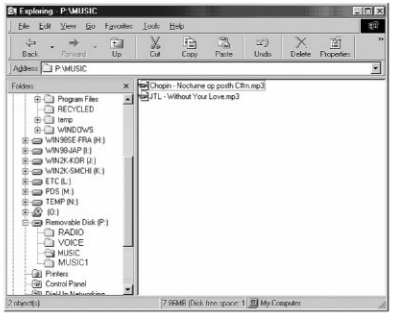
1) Select the file or folder to delete.



2) Select the Delete Key. Popup window prompting you to delete or not appears at this time.
If you want to delete, press "Yes."

3) Deleting procedure is completed.

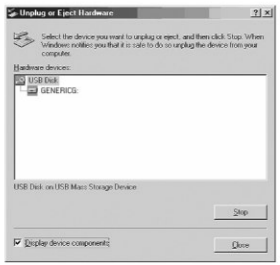
***Note:** You may not upload general music files (MP3, WMA, ..) for the issue of copyright. Uploading is available only for the file (record file) made in the product and data file.



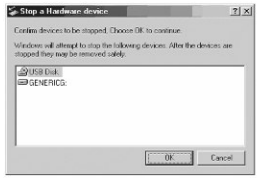
3 Disconnecting from the PC

When all works are completed, make sure to disconnect the product from the PC as follow: When disconnecting the product from the PC, make sure to click the green arrow(removal of hardware safety) twice on the bottom work displaying line.

When following window appears, press the (Stop) button and then,


Unplug or Eject Hardware
Select the device you want to unplug or eject, and then click Stop. When Windows notifies you that it is safe to do so, unplug the device from your computer.
Hardware devices:
USB Disk
GENERIC
USB Disk on USB Mass Storage Device
Stop
Display device components
Close

Disconnect the Player after pressing the (Check) button when following window appears.
(For the Windows XP, these procedures are not needed).

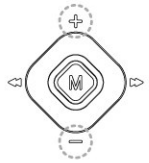

Stop a Hardware device
Confirm devices to be stopped. Choose OK to continue.
Windows will attempt to stop the following devices. After the devices are stopped they may be removed safely.
USB Disk
GENERIC
OK
Cancel

*** Caution:** Normally disconnect, otherwise the data stored in the memory of this product may be damaged.

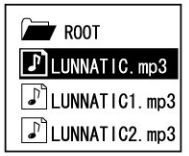
1 Music Mode

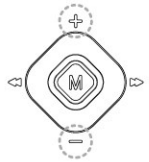
1. Listening to the Music

1) Click the (MENU SW) and then select the folder containing the music or song you want using (+) or (-) lever.

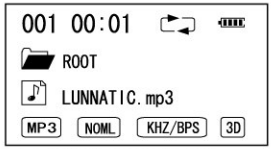


2) Transfer(Searching): You may search music or song you want using (+) or (-) lever.





3) Selection of Music or Song: You may listen to the selected music or song by pressing the (Play) button after searching the music you want.



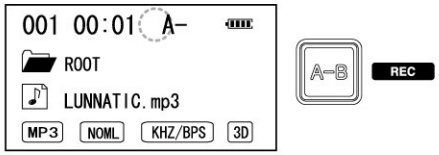
* You can control the volume using (+) or (-) lever on playing.

2. Repeat Listening to the Specific Part

* Part Repetition

Used when you want to repeat listening to the selected part while playing.

1) Select the first part of music or song (A Position) by clicking the (A-B/REC) button.



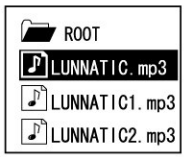
2) Select the end part of music or song (B Position) by pressing the (A-B/REC) button again.

* You may repeat listening to the A-B Part.

* If pressing the (A-B/REC) button again, the part repeating function is released.

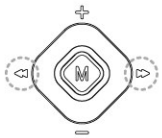
3. Deleting the Music or Song

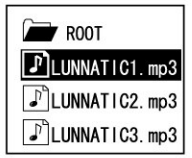
1) Click the (A-B/REC) button after selecting the music or song to delete.



2) Message "FILE DELETE ARE YOU SURE?" appears on LCD screen.

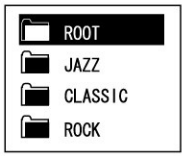
3) If selecting "YES" using either ◀◀ or ▶▶ lever, the selected music or song is deleted.

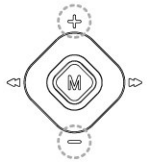




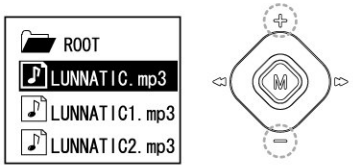
4. PLAY LIST function

1) (MENU S/W) You can select the folder using (+) or (-) lever.

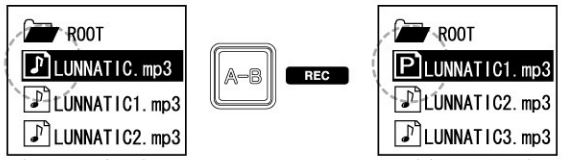




2) Move(searching): You can search the song using (+) or (-) lever.



3) Select Music: Select the song you want to upload on play list and push the button (A-B/REC) shortly then you will see the song you selected on the play list.



(songs In Player) (play List Song)

* If you want to delete the play list song, just push the button (A-B/REC) shortly or Play List, you use the button of (FF ▶▶)

*** Caution:** Do not forward this button(FF ▶▶) too long It may delete all play list music. For listening play list, play mode on the control function should be "ON"

* Reference with control mode for more information.

5. Key Functions in the Music Mode

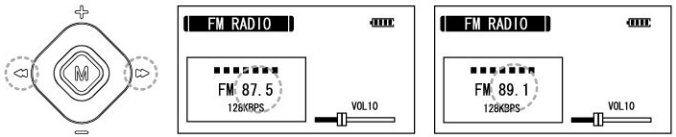
Function Keys	Length of Pressing	Execution
PLAY/PAUSE	Shortly	Temporarily stops the music or song being played.
	Long	Power OFF
Volume +/-	Shortly	Increases or decreases the volume.
FF ▶▶	Shortly	Moves to the next music or song.
	Long	Quickly searches the next part you want to listen.
REW ◀◀	Shortly	Moves to the previous music or song.
	Long	Quickly searches the previous part you want to listen.
AB/REC	Shortly	Initiates the setting of part repetition. Terminates the setting if the setting of part repetition is under processing.
	Long	Moves to the control mode.
MENU S/W	Shortly	Enters the searching mode.
	Long	Moves to the menu selection mode.

2 FM RADIO Mode

*** Note:** The earphone plays the function of antenna upon receiving FM Frequency, so you may not receive the broadcasting if an earphone is not inserted

1 Listening to the FM Broadcasting

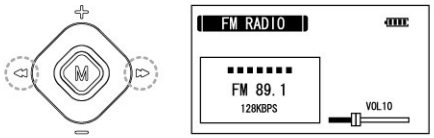
Adjust the frequency of broadcasting you want by pushing either ◀◀ or ▶▶ lever.



(Before) (After)

*** AUTO SCAN Function**

The frequency on the broadcasting is automatically searched by pushing and holding either ◀◀ or ▶▶ lever after releasing the PRESET.



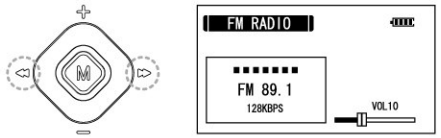
* When you searching the frequency by AUTO SCAN, please set receiving sensitivity using FM SCAN LEVEL of control mode.

* Set low SCAN LEVEL when frequency is not searched by AUTO SCAN.

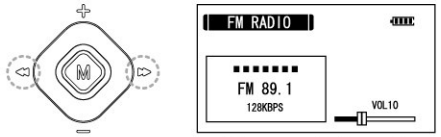
*To stop the Auto Scan function, press the On/Off button.

2. FM Broadcasting Memory

1) Adjust to the frequency you want by using either ◀◀ or ▶▶ lever.

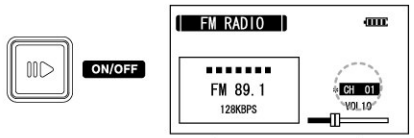


2) Adjust to the frequency you want by using either ◀◀ or ▶▶ lever.



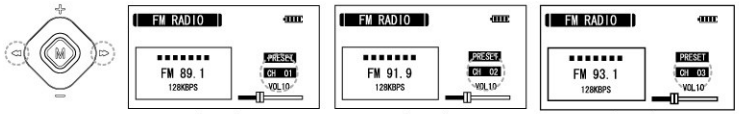
(Frequency Settlement)

3) Set and select the channel you want by pressing the (PLAY/PAUSE) Button of Player.



(Choosing Channel)

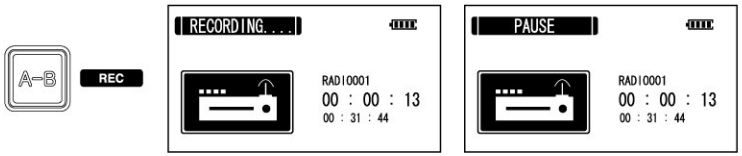
4) Store the selected frequency in the channel number you want by pressing the(PLAY/PAUSE) Button of Player again.



(CH1) (CH2) (CH3)

2. FM Broadcasting Record

The broadcasting you are listening is recorded if pressing the (A-B/REC) Button while listening to the broadcasting.



(Recording) (Pause)

* The recorded broadcastings will be stored in the name of (RADIO001.MP3~ RADIO002.MP3) in the RADIO Folder sequentially.

5. Key Functions in the Music Mode

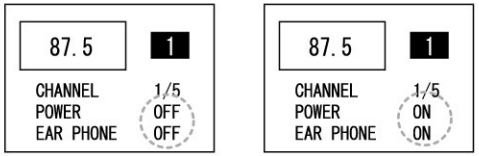
Function Keys	Length of Pressing	Execution
PLAY/PAUSE	Shortly	Transferred to the CHANNEL SELECTION Mode and frequency is memorized in the selected channel.
	Long	Power OFF
Volume +/-	Shortly	Adjusts the volume
FF ▶▶	Shortly	Frequency is increased. (PRESET Mode) Moves to the next channel.
	Long	Frequency is increased and automatic searching function is activated. (PRESET Mode) Quickly moves to the next channel.
REW ◀◀	Shortly	Frequency is increased. (PRESET Mode)Moves to the previous channel.
	Long	Frequency is decreased and automatic searching function is activated. (PRESET Mode)Quickly moves to the previous channel.
AB/REC	Shortly	Records the radio broadcasting of current frequency. Stops the recording if any radio broadcasting is under recording.
	Long	Moves to the CONTROL Mode.
MENU S/W	Shortly	Selects the PRESET Mode. Releases the PRESET Mode if PRESET Mode is selected.
	Long	Moves to the previous mode.

3 RF XMIT Mode (option)

This mode allows you to listen to the music file replayed in this Player through other audio apparatus using the FM Transmitting function without any additional connection to the external device.

1. Using the RF

You may listen to the music or song of this Player through the external radio by setting the POWER on the RF Sub-menu to ON after adjusting the frequencies of RF Mode and external radio.



(Off) (On)

* EAR PHONE can be used as a Antenna when power off.
* Frequency 87.5 is the best channel for RM mode(Frequency Range : 78.5~100.0)
* The frequency must be same between player and other Audio player.

2. Key Function in the RF Mode

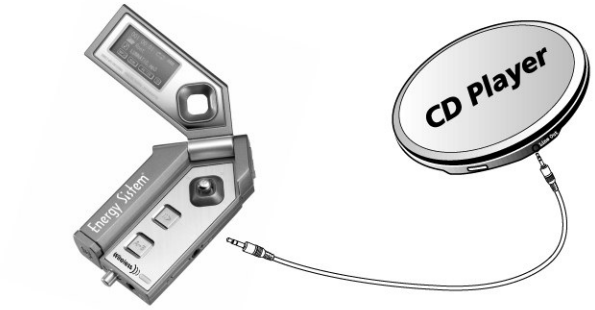
Function Keys	Length of Pressing	Execution
PLAY/PAUSE	Shortly	Moves to the sub-modes in the mode (CHANNER,POWER).
	Long	Power OFF
(◀◀) o (▶▶)	Shortly	Sequentially searches the stored frequencies.
(+)	Shortly	Increases the frequency.
	Long	Quickly increases the frequency.
(-)	Shortly	Decreases the frequency.
	Long	Quickly decreases the frequency.
AB/REC	Shortly	Moves to the initial mode.
	Long	Moves to the initial mode.
MENU S/W	Shortly	Number is increased one by one, or Moves to the sub-modes in the mode.
	Long	Moves to the previous mode.

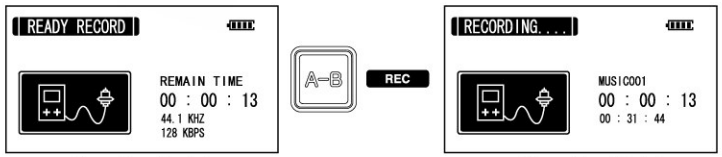
4 LINE-IN ENCODE Mode

This mode allows you to store the music or song in the name of mp3 music in the Player via a connection to the external device.

1) How to Connect to the External Device and How to Record

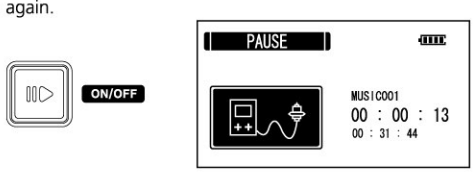
1) Initiate recording by pressing the (A-B/REC) Button after connecting to the external device to record as follow: (For the change of setting, refer to the control function)





(Encoding Mode) (Recording Mode)

2) Push the (PLAY/PAUSE) button when you want to pause and re-record when push this button again.



3) Push the (A-B/REC) button when you want to stop then it will be stored on MUSIC folder.
- Move to MUSIC folder when you push (MENU SW) button.
- Back to previous mode when you push (MENU SW) button longer.
- Move to first booting mode when you push (AB/REC)
- Back to control mode when you push (MENU SW) button longer (AB/REC)

* The recorded files will be sequentially stored in the name of (MUSIC001.MP3~ MUSIC002.MP3) in the MUSIC Folder.
* By use of MUSIC RECORD setting, you can control AUTO Sync.
* For more details, please refer to the control function.
* Caution: Recording cannot be made if the batteries are low.
  Set the volume of external device at proper level, otherwise, recorded sound quality can be poor

5 Voice Record Mode

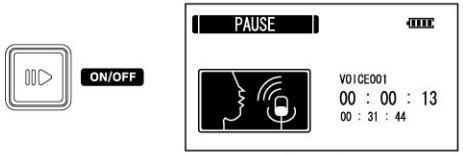
This mode allows you to record the voice in the Player (for the change of setting, refer to the control function).

1. Voice Recording

1) Initiate recording by pressing the (A-B/REC) Button.

(Voice recording Mode) (Recording)

2) Push (PLAY/PAUSE) button when you want to pause and push (PLASY/PAUSE) button to play again.



(Pause)

3) If you want to stop, push (A-B/REC) button and stored on VOICE folder.

- Push (MENU S/W) button then move stored VOICE folder.
- Move to previous mode when you push (MENU SW) button longer.
- Move to first booting mode when you push (AB/REC) button.
- Move to control mode when you push (AB/REC) button longer.

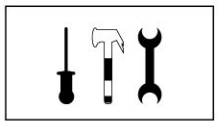
* The recorded voices will be sequentially stored in the name of (VOICE001.MP3~ VOICE002.MP) in the Voice Folder.
* User can be set Auto Detect, detect Level, AGC using voice record control when voice recorded.
* For more information, reference with control mode.
* If memories are voicefull, recording will be automatically stopped.

6 Setting the Product Functions (CONTROL) Mode controls the functions of Player.

1. Function Keys in the Control Mode

Function Keys	Length of Pressing	Execution
PLAY/PAUSE	Shortly	Moves to the previous mode.
	Long	Moves to the previous mode.
Volume +/-	Shortly	Increases the number and changes the selection menu.
FF ▶▶	Shortly	Quickly increases the number and changes the selection menu.
	Long	Decreases the number and changes the selection menu.
REW ◀◀	Shortly	Decreases the number and changes the selection menu.
	Long	Moves to the initial mode.
AB/REC	Shortly	Moves to the initial mode.
	Long	Moves to the previous mode.
MENU S/W	Shortly	Moves to the sub-mode in mode.
	Long	Moves to the previous mode.

2. General



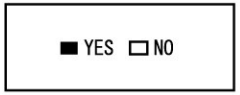
1. DOWNLOAD
2. LOAD DEFAULT
3. LANGUAGE SET
4. FAST FORMAT
5. LOW FORMAT
6. INFORMATION

1) DOWNLOAD

Used when upgrading the firmware of new version. You may use the product of best performance all the time using this function. (Refer to the use guideline regarding the Firmware Upgrade)

2) LOAD DEFAULT

Used to initialize the settings of all menu functions to the default state.



3) LANGUAGE SET

Title or information of music or song is decided according to the operating system of PC where music or song is made. Select the language suitable for the setting.

Ex) Make sure to set to the Spanish if made in the Spainish Window.
Make sure to set to the CHINESE if made in Chinese Window.

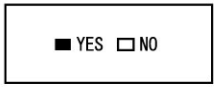
4) FAST FORMAT

Used to delete all data stored in the track (only the designated data will remain).

5) LOW FORMAT

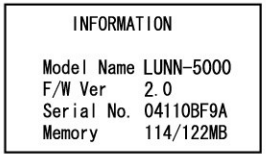
Used to delete all data memorized in the memory.

*** Caution:** Make sure to download the font after formatting.

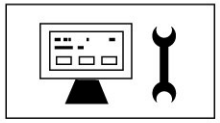


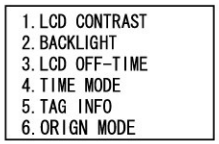
6) INFORMATION

Displays the name of product, Firmware version, approval number, product capacity, and remained capacity.



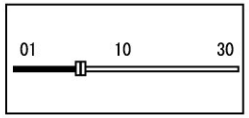
3. DISPLAY





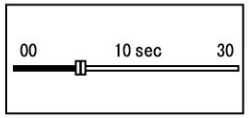
1) LCD CONTRST

Used to adjust the brightness of LCD Screen. (1~30Level)



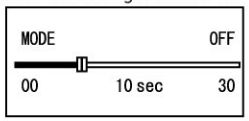
2) BACKLIGHT

Allows you to set the time of backlight. Setting is available up to 0~30 minutes.



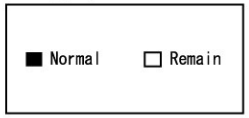
3) LCD OFF-TIME

Allows you to set the backlight time of LCD Screen.



4) TIME MODE

Select the mode you want out of playing time (NORMAL) and remaining time (REMAIN) of music or song being played.

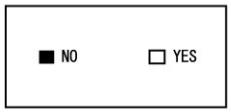


5) TAG INFO

YES: If playing the music or song with tag information, the subject is changed to the tag information.

NO: Displays only in the filename.

* For the music or song without tag information, it is displayed in the filename regardless of setting.

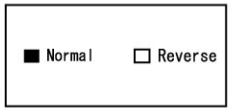


6) ORIGIN MODE:

This function allows the user to change the direction text is displayed on the LCD.

Normal: LCD will display text normally (top down).

Reverse: LCD will reverse the direction the text is displayed by 180 degrees (bottom up).

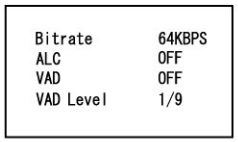


4. RECORD

1) VOICE RECORD

Selects the sound quality upon recording the voice.

- **Bit RATE:** 8Kbps~128Kbps
- **VAD ON:** The recording is temporarily stopped if there is no more sound source to record upon recording the voice, and the recording is automatically restarted if there are any sounds. Long-term recording becomes available by saving the memory capacity.
- **VAD OFF:** Releases the voice sensing function.
- **VAD Level:** Allows you to set the voice sensing level up to 1~9 levels.
- **ALC ON:** The recording level is automatically adjusted upon recording the voice, and the sound at a distance is normally recorded.
- **ALC OFF:** Inactivates the ALC Function.

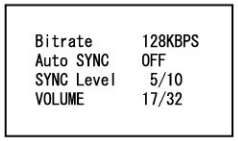


2) RADIO RECORD

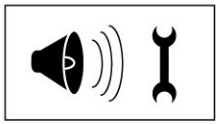
Selects the sound quality upon recording the radio.
- Bit RATE: 56Kbps~256Kbps

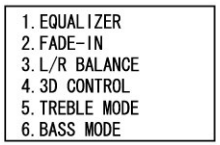
3) MUSIC RECORD

Selects the sound quality upon recording the external sound source.
- **Bit RATE:** 56Kbps~256Kbps
- **Auto SYNC ON:** Is the function of creating new file through the classification by audio track when recording the audio CD through the input into the Line-in.
- **Auto SYNC OFF:** Releases the function of sensing the audio signal.
- **SYNC Level:** Creates new file if there is no audio signal during the time designated for sensing (1~10 seconds).
- **Volume:** Sets the recording level upon recording the external sound source (Settings up to 1~32 are available).



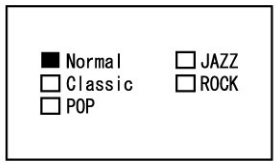
5. SOUND





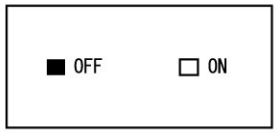
1) EQUALIZER

You may select the genre of music or song using the EQ Selection button.
- Genres: (NORMAL, JAZZ, CLASSIC, ROCK, POP)



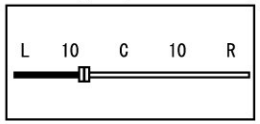
2) FADE-IN

If setting to ON, the volume is gradually increased upon initiation of playing.
It prevents the sound from being played too loudly upon playing after the stop.



3) L/R BALANCE

Left and right output levels of headphone or earphone are adjustable.
When adjusting the left level, the sound of left channel is decreased or increased, and when adjusting the right level, the sound of right channel is decreased or increased.
Default setting is 0, and left and right channels are outputted in the same level.



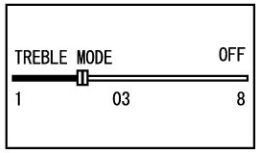
4) 3D CONTROL

You may set the high and low tones as per your preference.
- **3D MODE ON:** Activation
- **OFF:** Retraction
- **STEREO DEPTH 0/16:** Used to adjust the weight of left and right sounds.

Ex) Upon setting to 8/16,
- Left Speaker: You may hear the sound on the left 100% and the one on the right 50%.
- Right Speaker: You may hear the sound on the right 100% and the one on the left50%.

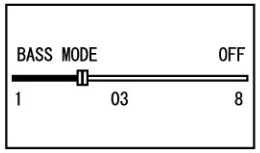
5) TREBLE CONTROL:

Treble Control provides user with 8 levels of treble sound control.

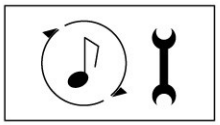


6) BASS CONTROL:

Bass Control provides user with 8 levels of bass sound control.



6. PLAY

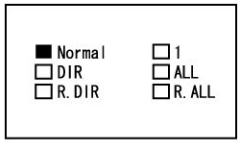


1. REPEAT
2. PLAY SPEED
3. INTRO SEARCH
4. RESUME
5. PROGRAM
6. PLAY LIST

1) REPEAT

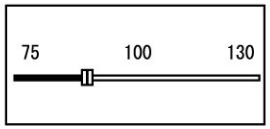
This function allows you to select the ways of selecting and repeating the music or song

NORMAL	Plays the whole music or song once.
1	Repeats playing the selected music or song.
DIR	Repeats playing the selected folder.
ALL	Sequentially repeats playing the whole unlimitedly.
R.DIR	Repeats playing the folder at random.
R.ALL	Unlimitedly plays the whole at random.

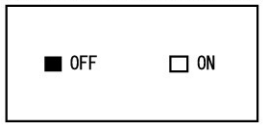


2) PLAY SPEED

You may set the playing speed control of the recorded track up to 75%~130%.

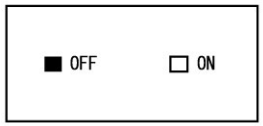


3) INTRO SEARCH
Plays for 10 seconds from the time when music or song is initiated.

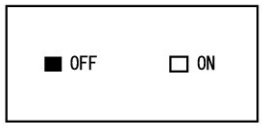


* If you want to intro mode search, push the (+) lever more than 1~2 seconds.

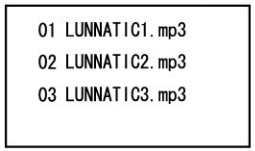
4) RESUME
Replays at the part where music or song is played for the last time with this function set (ON) when turning on or off the power.



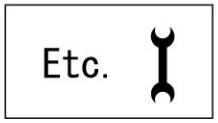
5) PROGRAM
(ON) Play the music on PLAY LIST
(OFF) Not play on PLAY LIST

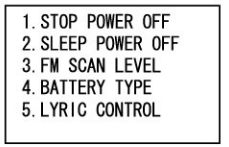


6) PLAY LIST
Show play list music selected of user.
(FF ▶▶) Delete selected song when you forward shortly.
(FF ▶▶) Delete all play list songs when you forward longer.

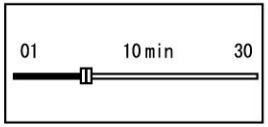


7. Etc.



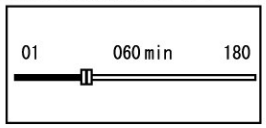


1) STOP POWER OFF
You may adjust the power off time at the idle state.
(Setting in the unit of a minute up to 1~60 minutes is available)



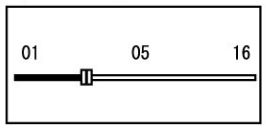
2) SLEEP POWER OFF

When the designated time elapses, the power is automatically off.
(Setting in the unit of a minute up to 1~180 minutes is available).



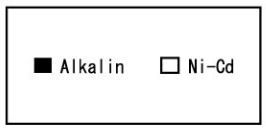
3) FM SCAN LEVEL

This function allows you to automatically capture the frequency by measuring the sensitivity of frequency upon listening to the FM Radio.



4) BATTERY TYPE

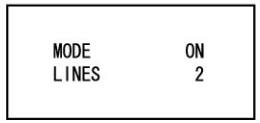
This function is used to set the BATTERY TYPE you use.
Select the using BATTERY TYPE "ALKALINE" and charger "NI-CD" using the(vol+,vol-) button.



*** Caution:** Make sure to select the BATTERY you use.
- Life of battery may be reduced if using the charger after selecting the ALKALINE Mode.
- Playing time may be reduced if using the ALKALINE after selecting the Charger Mode.

5) LYRIC CONTROL:

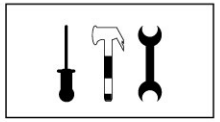
MODE: This function allows user to display song lyrics if tagged to the sound file.
LINE: This function allows user to show tagged song lyrics on either 2 or 3 lines of the LCD display.



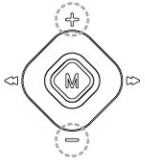
7 Upgrading

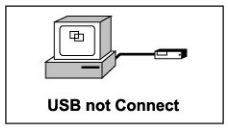
1. Firmware Upgrade

1) Enter the control mode by clicking and holding the (A-B/REC) Button.



2) Select the DOWNLOAD after entering the GENERAL Mode using the (Volume +/-) lever.





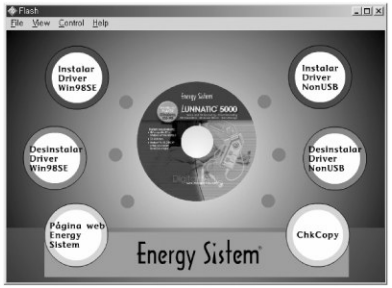
(Connected LCD screen)

3) Now, the product is ready to be upgraded, and install the driver in the computer according to the following guideline after inserting the CD provided with the product

*** Caution:** Do not insert the product in the USB Port yet.
When inserting the product unless the driver is installed, the computer may not recognize the product.

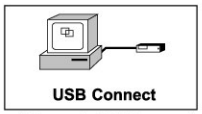
2) How to Install

1) Insert the CD provided with the product in the CD-ROM.
2) Installation guide program is automatically loaded.
   (When the program is not automatically executed according to system environment, execute the program using the PVS-500.exe stored in the CD)



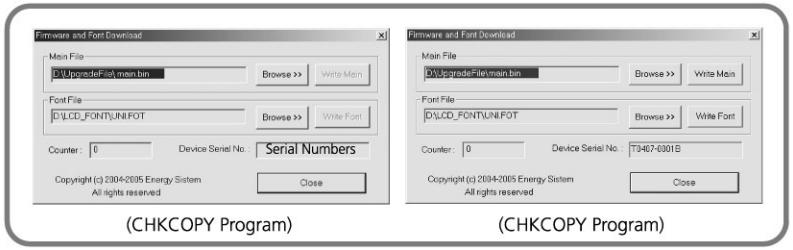
3) Click the NonUSBDriver Install. DOS Screen appears and driver installation procedure is completed.

4) Once Non USB Driver installation is completed, click the Chkcopy of guide program after inserting the Player in the USB Port.



(Connected LCD screen)

* Caution: For the WIN98/SE user, install the 98 driver.
* You are required to reboot the computer for some cases.



(CHKCOPY Program) (CHKCOPY Program)

4) **Boot File:** File coupling the computer and product.
   Main File: Means all operating execution files installed in the product.
   Font File: Unicode font file of LCD.
   a.Operates main file(main.bin) in upgrade folder.
   b.Use the font file when the font disappears, or you want to use other fonts.

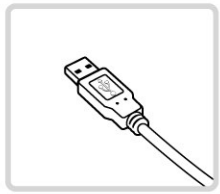
   * **Caution:** Above upgrading process is not available if the serial number of device does not appear.
   * Concurrent upgrading of boot file and main file is available. However, you need to upgrade the font file individually.

5) Once upgrading procedure is completed, the product becomes rebooting and it is released in the DOWNLOAD Mode. For the additional uploading of functions, reconnect the product to the USB Port after disconnecting the product from USB Port and selecting the DOWNLOAD Mode.

   * When upgrading procedure is completed, you may use the product with the improved functions
   * **Caution:** It may be changed of performance when upgraded.

Earphone

USB Cable+Portable

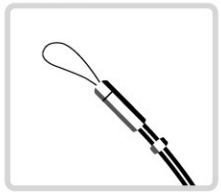


Audio Cable

Manual/Warranty Certificate

Battery (1 AAA Type)

Necklace



Installation CD

Portable Case (*Option)+Pouch

* Accessories are subject to change for the improvement of product performance and quality without any notice.

* Regarding the Safety

Do not impact to the product such as drop.

- This Player is not damaged by the shaking during a walk or exercise. However, if dropping or impacting with heavy article, it may damage the product.

Be careful not to get the product wet.

- If the product is wet, it may cause the problem to the product for the damaged part. If the product is wet, take it to the service center or authorized repair man for the service after drying with dry clothes.

Make sure to take out the battery when not using long period of time

- If leaving the battery in the product not being used for long period of time, the fluid leaked from the battery may damage the product..

* Regarding the Headphone/Earphone

Regarding the Traffic Safety

- Do not use the headphone/earphone when driving the car or riding bike or motorbike. It may be dangerous and cause the violation of laws in some area or country. If using the headphone/earphone with adjusted to high volume at a crosswalk during a walk, it may be dangerous.

To Protect the Hearing

- Do not use the headphone/earphone with adjusted to high volume. Experts have raised the critical adverse effect of listening to with high volume for long period of time. When you have symptom of ear ringing, reduce the volume, or stop using.

To Conveniently Listen to the Music

- Enjoy the music or song by selecting the earphone as per your physical figure and preference.

* Carrying

- If running with carrying the Player via a portable necklace or impacting the string, the Player may be damaged when the string is broken and it may cause the damage to the body or property, so please be careful about potential risk.
- If falling down or running against the others with the Player placed in the pocket, it may cause the damage to yourself or others, so please be careful.
- Please be careful not to get the portable necklace stuck in the door.

Things to Check at the Time of Defect
Check the following items first if some errors or defects are suspected

No Power
- Did you fit the battery into the correct polarities?
- Is your battery fully charged?

No Sound or Occurrence of Noise
- Check if the volume is adjusted to "0"?
- Is the earphone correctly connected, or is there any foreign substance in the terminal? (If there is foreign substance, it may cause the noise).
- For the MP3 and WMA, if data is damaged, it may cause the noise, or sound is broken. Check with other files.

Strange letters or characters display on the LCD Screen
- Check and see if the language setting is correct.

You hear noises "Boo" and "Ssa" upon listening to the radio, and hard to capture the broadcasting frequency
- Change the direction of product and earphone.
- Turn off the power of electrical devices around the product. If noise is reduced at this time, operate the product away from the electrical device.
- An earphone plays the function of antenna upon listening to the radio, so listening to the radio may be hard without the earphone.

Downloading is not available
- Check and see if the battery is discharged and USB Cable between PC and Player is firmly connected.

Recording is not available
- Check the memory capacity and then delete unnecessary files.

Execution and deletion of stored data are not available
- Use after executing the memory LOW FORMAT.

Classification	Items	Specifications
FM TUNER	Range of FM Frequency	78.5MHz ~ 108.0MHz
	Headphone Output	(L) 10mW + (R) 10mW
	Noise rate against signal	60dB
	Antenna	Earphone Code Antenna
	Sensitivity	6dBuV
	Distortion	Less than 0.5%
Audio	Characteristics of Frequency	20Hz ~ 20KHz
	Headphone Output	(L) 10mW + (R) 10mW
	Noise rate against signal	90dB ~ 97dB (MP3)
	Distortion	Less than 0.06% (MP3)
Provided FILE	File Type	MPEG 1 / 2 / 2.5 / Layer3, WMA, ASF
	MP3 Encoding	MPEG 1 / 2 / 2.5 Layer3
LCD		Full Graphic 4 Line (128*64Dot)with Backlight
Languages		42 different languages
Voice Record		About 4 hours / 64Kbps, 128MB
		About 8 hours / 64Kbps, 256Mb
Battery		AAA Type ALKALINE Battery 1 ea
Maximum Playing Time		10 hours
USB		USB 1.1
Size		44mmX80mmX18mm
Weight		45g (Battery is excluded)

* Contents of user guide are subject to change for the improvement of product performance and quality without any notice.

*** Caution**
WIN98/SE User must install the setup.exe program of provided CD for the use.

1. This product is manufactured under the strict quality control and test process.
2. When any defects occur under customer's normal use, free service will be provided at the sale agent or our service center during the warranty period.
3. When warranty period is terminated, or for the defects caused by the customer's error or carelessness during the warranty period, repair service will be provided with charged.
4. When repair is required, you are kindly requested to present this warranty certificate.

Name of Product				**Model No.**
Manufacturing No.				
Customer	**Name**			**Phone No.**
	Address			
Vendor	**Name**			**Phone No.**
	Address			
Date of Sale	**Year**	**Month**	**Day**	**Warranty Period**
Manufacturer	**Name**			**Phone No.**
	Address			
Period of Holding the Spare Parts for the Repair				**Years after the sale of product is stopped.**

* Please fill in the blanks for customer, vendor and date of sale at the time of selling the product.

* Service with Charged

For the Defects Caused by the Customer°Øs Error or Carelessness

- When defects occur by the customer°Øs carelessness or unauthorized repair and modification.
- When defects occur by the use of wrong electrical capacity.
- When defects or damage by the drop upon moving after the installation.

Other Cases

- When defects occur by the disasters such as fire, salt damage and flood.
- When life of consumptive parts such as battery is extinguished.

*** If you have any inquires regarding the product, please contact us through our following homepage:**

(http://www.energysistem.com/)

Energy Sistem®